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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,985	03/31/2004	Neal R. Rueger	102-0102US	1278	
29855	29855 7590 06/15/2006			EXAMINER	
WONG, CABELLO, LUTSCH, RUTHERFORD & BRUCCULERI, L.L.P. 20333 SH 249 SUITE 600			KACKAR, RAM N		
			ART UNIT	PAPER NUMBER	
			1763		
HOUSTON,	HOUSTON, TX 77070			DATE MAILED: 06/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Astion Community	10/814,985	RUEGER, NEAL R.				
Office Action Summary	Examiner	Art Unit				
	Ram N. Kackar	1763				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 27 M	arch 2006.					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-23 and 44-70</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
7) Claim(s) is/are objected to.	6) Claim(s) 1-23 and 44-70 is/are rejected.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers	·					
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9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary (
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)				
Paper No(s)/Mail Date <u>3/31/04</u> . 6) Other:						

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DETAILED ACTION

Election/Restrictions

1. Claims 24-43 and 71-97 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention. Election was made **without** traverse in the reply filed on 3/27/2006.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 3-4, 6, 9-11, 13-21 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Gary Powell (US 6538734).

Gary Powell discloses an excitation chamber (105) connected to a reaction chamber (101) for deposition or etch (Col 1 lines 10-20) for assisting in the analysis of at least one processing gas (sample gas) with a reference gas which is included with sample gas (Abstract), a cylindrical cavity for receiving the processing gas (Fig 2-235) and a reference gas (Col 1 line 33-37, Col 7 lines 31-40 and Col 8 lines 7-14). The sampled gas could be representative of exhaust gas (Col 2 lines 7-14). Further disclosed is an energy source coupled inductively to the excitation chamber for excitation of the gas (203), flange for processing gas (Fig 2-221), window for monitoring the plasma (237), fiber optics (208), a computer (112) to receive and analyze the spectrum and to control (Abstract). The process could be plasma or non-plasma (Col 7 lines 31-40).

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

5. Claims 2, 5, 7-8, 12, 22 and 44-70 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Gary Powell (US 6538734) in view of Article Emission Spectroscopy and

actinometry in a magnetized low pressure radio frequency discharge by A. D. Kuypers et

al.

Gary Powell discloses analysis of a gas using actinometry using a reference gas but does

not disclose a probe like a Langmuir probe in the excitation chamber.

The Article as above discloses measurement of unknown gas (page 3742) as in Gary

Powell and further teaches that optical measurements could be interpreted with Langmuir probe

which measure absolute ion densities which indicate the concentration of gas components (Col 2

Page 3737).

Therefore it would have been obvious for one of ordinary skill in the art at the time of

invention to further qualify the measurement results of unknown gas using reference gas by

using Langmuir probe.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ram Kackar

Primary Examiner AU 1763